TECHNICAL EXHIBIT 16

Drydocking Availability for YFB-92 (FY21)		
Scope of Work (SOW), For On Island Work Effort		
Number	Description	
	a) Location of Work:	
	1) **Wharf "W" GTMO**	
	b) Identification:	
	1) YFB-92	
	c) Reference:	
	1) NAVSEA DWG 6917426, YFB Docking Plan	
	2) Naval Ships Technical Manual Chapter 997, Docking Instructions and Routine Work in Dry-dock	
	3) NAVSEA DWG 163-6917427, YFB Sea Chest Details	
	4) NAVSEA DWG 529-6917394, YFB Bilge System Schematic Diagram	
	5) Naval Ships Technical Manual Chapter 631, Painting and Preservation	
	6) NAVSEA DWG 100-6917349, YFB Structural Plan and Profile	
	7) NAVSEA DWG 801-6917417, YFB General Arrangement and Profile	
	8) Naval Ships Technical Manual Chapter 074, Welding and Allied Processes	
	9) NAVSEA DWG 6917351, YFB Shell Expansion and Long Plan	
	10) NAVSEA DWG 6917355, YFB Structural Section Plan	
	11) NAVSEA DWG 6397358, YFB Structure Deckhouse	
	12) NAVSEA DWG 6917349, YFB Structural Plan and Profile	
	13) NAVSEA DWG 6917357, YFB Structure Main Deck	
	14) NAVSEA DWG 6917356, YFB Transverse Details	
	15) NAVSEA DWG 6917352, YFB Tunnel Construction	
	16) Naval Ships Technical Manual Chapter 245, Propellers	
	17) NAVSEA DWG 243-6917365, YFB Shafting	
YFB 92-01	**De-Fueling, and Re-Fueling Of Craft**	
01.1	**Fuel Removal / Refueling**	
01.1.1	Provide/install oil boom services around the periphery of the craft prior to transfer of fuel from craft.	
01.1.2	Pump out / remove/ fuel / lube oil , as required from each fuel tank and stow in clean approved containers IAW local regulations ashore for use in operational craft, total of approx. 4,000gal fuel, 90 gals lube oil.	
	Test lube oil and fuel prior to transferring back to YFB at end of availability. Filter fuel during transfer.	
01.1.3	Remove/secure oil boom around the periphery of the craft after completion of fuel transfer.	
YFB 92-02	**Safety/Q/C Requirements.**	
02.1	Establish safety work plan for dry-docking/undocking and repair of the craft	
02.2	Ensure all PPE requirements are in good working condition and always available on site.	
02.3	Maintain gas free for entry until completion of repairs in confined spaces.	
02.4	All safety sign boards must be visible on travel lift area or job site.	
02.5	Hard hat is mandatory and no exemption.	
02.6	Gauges (manometer) for void tank air test must calibrated and tested several times prior to start the job. Observe closely air pressure 2 PSI MAX.	
02.7	Paint coating shall be free of runs or sags with all borderlines, struck clean, clear and precise.	
02.8	Apply paint only under weather conditions and coating intervals as recommended by the paint manufacturer.	
02.9	Extend paint coating curing time as required by weather condition.	
02.10	Minimum DFT (Dry Film Thickness) shall be listed on QPL-24647	
02.11	Metal exterior surfaces of the craft shall be coated in accordance with the requirements in NAVSEA S9086-VD-STM-030/CH-631V3R2 Table 631-8-10 (Paint System for Exterior Steel Surfaces on Surface Ships)	
02.12	Provide temporary lighting and ventilation in to all tanks as needed to maintain gas free certificate. Ensure lighting fixtures are explosion proof.	
02.13	All corners, edges and underneath (stiffeners, gazettes and coaming) that cannot be reached by sandblasting sand shall be cleaned by means of appropriate portable decaling equipment, chipping hammer and wire brush to ensure metal surfaces are rust free prior to prime coat.	
02.14	All corners, edges underneath (stiffeners, gazettes and coaming) that cannot reached by spray paint shall be stripe coated manually with brush to ensure metal surfaces are properly preserved.	
02.15	Zinc anode surfaces and fasteners shall not be preserved or painted.	
YFB 92-03	**Docking and Undocking**	
03.1	**Docking Requirements**	

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Number	Description	
03.1.1	Use of a dockmaster and trained docking crew using ref. c. 1 and 2. provide, set, and align the blocks. Blocking shall be positioned to ensure that equipment on the surface of, or protruding from the hull will not be damaged and shall be accessible for removal and repairs. Provide at least the minimum clearances between the craft's hull and dry-dock necessary to accomplish dry-dock work within these specifications. Hull openings shall not be obstructed.	
03.1.2	Take and record tank soundings and determine ballast requirements to dry-dock the craft with list, trim, and stability conditions.	
03.1.3	Prepare/position in place Docking Blocks at Wharf "W" designated docking area IAW with ref. c1 and 2.	
03.1.4	Install lifting pad eyes onto YFB 92. Ensure proper torque of bolts.	
03.1.5	Utilize travel lift to lift craft from the water and transport to blocks.	
03.1.6	Inspect the fit on the blocks immediately after the craft is dry-docked. Provide shimming between blocking and the craft's hull in the event of hull movement due to removal of ballasting or shifting of craft load.	
03.1.7	Pressure wash the craft's underwater hull and fittings with minimum 2500 psig nozzle pressure and hand scrape to ensure the removal of dirt, slime, marine growth, fouling, and other foreign substance.	
03.1.8	Upon completion of bottom cleaning and painting, shift the craft on the blocks and ensure 100 percent bottom cleaning and painting.	
03.1.9	Accomplish stability and loading calculations based on weight changes made on the craft while in dry-dock. Obtain the tank loading condition upon entering dry-dock, and a list of weight changes during the dry-dock period. Based on the conditions upon docking and weight changes made while in dock. accomplish calculations to determine conditions upon undocking. Determine ballast requirement to maintain list, trim, and stability conditions.	
03.1.10	After hull is submerged, accomplish a watertight integrity inspection of contractors work affecting water tightness of the hull plating below the water level. Once inspected and found watertight, continue with the undocking.	
YFB 92-04	**Inspection and Cleaning of Underwater Hull**	
04.1	**Inspection of Underwater Hull**	
04.1.1	Accomplish a visual inspection of the underwater hull and freeboard for, deterioration, damage, and other defects immediately after dry-docking including locations. Submit one legible copy in electronic media of the report to the COR.	
YFB 92-05	**Cleaning of Underwater Hull**	
05.1	After visual inspection, pressure wash approximately 7,300-SF of the entire underwater hull area up to and including outboard side of the gunnels. This includes all vertical and horizontal areas.	
05.2	Remove all marine growth from the shafting, propeller, & rudder by water blasting.	
05.3	After removal, water blast areas blocked by sea cooler, sea chest strainers, and zinc anodes.	
YFB 92-06	**Hull Zinc Protector Renewal**	
06.1	**Removals**	
06.1.1	Upon satisfactory completion of hull cleaning, break loose 112 1/2" stud bolt nuts.	
06.1.2	Remove approximately 56 ea. 1-1/4" x 6" x 12" old hull zinc protectors. Replace any missing and defective bolts and nuts as required. For planning purposes plan to replace 56 each stud bolts and nuts. Inspect weld around base of studs for cracks.	
06.1.2	**Installation**	
06.2.1	Chase existing zinc anode stud threads and weld/replace defective studs with new ones	
06.2.2	Install approximately 80 ea. New zinc anodes with self locking nuts. Ensure locations conform to drawing locations.	
YFB 92-07	**Sea Chest & Keel Cooler, Repair/Replace as required**	
07.1	**Inspection / Removal / Repair as required**	
07.1.1	Remove 4-ea grills/covers and 8 each flange covers to facilitate removal of 4 each keel cooler assemblies.	
07.1.2	Pull out 4 each existing engine keel coolers from bottom hull and transport to engine shop using government provided fork lift, for cleaning.	
07.1.3	Purchase 2 ea. Keel cooler for main engine and 2 ea. Keel cooler for generators.	
07.1.4	Upon receipt leak test 4-ea keel cooler at 30 PSI, IAW NSTM Chapter 254, Rev. 1.	
07.1.5	Visually inspect/Penetration test sea chest box plating / structure and hull penetration.	
07.1.6	Repair keel cooler coamings and sea chest box as required.	
07.1.7	Open, recondition, and paint/preserve sea chest, suctions, discharges, and strainers plates.	
07.2	**Installation**	
07.2.1	Install 4 each engine keel cooler to their proper locations. Replace/install new rubber gaskets on each keel cooler.	
07.2.2	If new keel cooler will be installed, conduct hydrostatic test prior to installation.	

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Scope of Work (SOW), For On Island Work Effort					
Number	Description				
07.2.3	Upon satisfactory completion of installations conduct gasket leak test and pressure test onboard to insure for seaworthy prior to waterborne.				
YFB 92-08	Valve Repair/Replace as required				
08.1	Valve Removal				
08.1.1	Pull out the following isolation valves listed below; blank off/secure resultant openings.				
08.1.2	Provide hull tech services to pre-up frozen bolts and nuts for the removal of each valve.				
08.1.3	Provide fire watch services until completion of valves removal.				
08.1.4	Replace worn out bolts and nuts as required.				
08.1.5	Provide rigging services to rig out all valves from engine room to the shop and vise versa.				
08.1.6	Locations/Descriptions	Size	Qty		
08.1.7	a) Main Sea chest Valve	8"	1-ea	Overhaul	
08.1.8	b) Main Sea chest Vent Valve	1-1/2"	1-ea	Replace	
08.1.9	c) Main Sea chest Vent Valve	1/2"	1-ea	Replace	
08.1.10	d) MPDE Keel Cooler Isolation Valves	3"	2-ea	Replace	
08.1.11	e) MPDE Keel Cooler Isolation Valves	4"	2-ea	Overhaul	
08.1.12	f) MPDE Isolation Valves Sea Water Muffler Cooler	2-1/2"	2-ea	Overhaul	
08.1.13	g) SSDG Keel Cooler Isolation Valves	2"	4-ea	Overhaul	
08.1.14	h) SSDG Isolation Valves Sea Water Muffler Cooler	1-1/2"	2-ea	Replace	
08.1.15	k) Bilges Water Piping Valves	2"	1-ea	Overhaul	
08.1.17	l) Bilges Water Piping Valves	1-1/2"	3-ea	Replace	
08.1.18	K) Replace basket strainers				
08.2	Misc. Valves Overhaul				
08.2.1	Open up, and inspect main sea chest valve.				
08.2.2	Ensure valve has bench marks for reference prior to dismantle.				
08.2.3	Re-assemble valve internal mechanism IAW NSTM Chapter 556 procedures and specifications. Ensure valve mechanism will not be interchange or swap although they have the same characteristics and size.				
08.2.4	Lubricate valves stem prior to hydrostatic test.				
08.2.5	Upon completion of valve repairs, hydrostatic test each valve. Ensure each valve will hold pressure during normal close position.				
08.2.6	Fabricate/machine 10 each appropriate blank flanges for hydro test of each valve.				
08.2.7	Install new valve packing material				
08.2.8	Upon satisfactory completion of repairs preserve all valves IAW ref. c.5.				
08.3	Valve Re-installation				
08.3.1	Upon satisfactory completion of hydro test (bench test), re-install valves with new gaskets and tightening fasteners by sequence to required torque. Touch up paint as required.				
YFB 92-09	FWD & AFT Rudder Blade Removal, Inspection, Repairs, and Re-installation				
9.1	Removal				
09.1.1	Upon satisfactory completion of hull cleaning, Secure rudders with chain block prior to uncouple from rudder stock flange.				
09.1.2	Provide Hull TECH. services for the removal of fwd and aft rudder assemblies.				
09.1.3	Torch cut each bolt flange to facilitate disconnection of rudder blade from the rudder post.				
09.1.4	Make the necessary removals and unship the rudders and all associated components.				
09.2	Cleaning, Inspection and Repair				
09.2.1	HP water blast to white metal, inspect entire rudder(s) surface for defects. Noted defects will be addressed by Condition Found Report (CFR).				
09.2.2	Check the condition of rudder blades and associated components.				
09.2.3	Check existing joints weldment for cracks.				
09.2.4	Provide incidental repairs on rudder blades existing weldments approximately 5 lineal feet.				
09.2.5	Upon completion of rudder blades and associates components, hydrostatic test each blade IAW NSTM Chapter 074 Volume 1.				
09.3	Rudder Air Test				
09.3.1	Air test rudder for two (2) PSI. Pressure must hold for a minimum of ten (10) minutes for water tight integrity. Ensure appropriate equipment will be use for air test. Check manometer calibration if updated.				
09.3.2	Check manometer calibration sticker attached. Ensure it is calibrated and updated. Record drop test on QA form government representative to witness.				
09.4	Preservation				
09.4.1	Upon completion of repairs and satisfactory test, flood rudder with metal conditioning compound. (Flow Coat).				
09.4.2	Reinstall 2-each drain plugs with thread sealant compound.				

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Number	Description	
09.4.3	Rudder surfaces prepared and applied with appropriate pretreatment/preservation prior to re-install.	
09.4.4	Install 2-ea zinc anode to rudder surfaces (1 each side, evenly spaced in the center of the rudder) complete with mounting studs bolts and nuts after completion of repairs and preservations.	
09.4.5	Preserve each rudder with four coat (2 coat of primer paint and 2 coat anti-fouling) system as applied to underwater hull.	
09.5	**Re-installation**	
09.5.1	Re-install rudder and associated components upon completion of all necessary repairs and preservation.	
09.5.2	Ensure all flange bolts are properly torqued IAW appropriate torques specification (QCR-06-097).	
09.5.3	Provide rigging and welder assist for the re-installation of rudders. (Welding services will be required for securing of nuts and bolt heads.)	
09.5.4	Fire watches will be posted during any hot work evolutions.	
YFB 92-10	**FWD & AFT Rudder Stock Removal, Replace and Re-installation**	
10.1	**Removal**	
10.1.1	Secure fwd and aft rudder stock assembly with chain block prior to disconnection of mechanical linkages and packing gland assembly.	
10.1.2	Make the necessary removals and unship the rudder stock, including associated components.	
10.2	**Cleaning and Examination**	
10.2.1	Clean all parts of rudder stock trunk, bearing surfaces and other related components free of all corrosion, grease and any foreign matter.	
10.2.2	Issues which may be found during this phase will be addressed on Condition Found Report (CFR)	
10.3	**Repair of Rudder Stock/ Rudder Shaft Bearings**	
10.3.1	Purchase rudder stock material IAW blue print reference drawing.	
10.3.2	Upon receipt of rudder stock material provide machining services IAW existing designed characteristics.	
10.3.3	Fabricate new flanges for the rudder stock assemblies.	
10.3.4	Upon completion of flange fabrication provide welding services for fabrication of rudder stock assemblies.	
10.3.5	Provide Q/C services for penetration test of new weldments.	
10.3.6	***For planning purposes one rudder flange will be replaced, any further issues discovered during this phase will be reported via Condition Found Report (CFR) to the government representative.***	
10.4	**Re-installation**	
10.4.1	Re-install rudder stocks including associated components.	
10.4.2	Furnish/manufacture and install new Upper and Lower Carrier Bearing.	
10.4.3	Clean stuffing box and securements free of all rust, corrosion and other foreign matter. Chase the thread all fastening material.	
10.4.4	Recondition existing packing gland and stud bolts of the rudder stuffing box.	
10.4.5	Reassemble packing gland upon installation of new packing material and adjust packing gland stud bolts equally. Replace any missing and defective fastening material as required. (Final adjustment of packing gland will be performed during sea trial).	
10.4.6	Reinstall all mechanical linkages and realign (mechanical & electrical) rudder post at midship prior to hydraulic	
10.5	**Operational Testing**	
10.5.1	Final operational test will be conducted during sea trial.	
10.5.2	Cycle rudder from hard right to hard left and back to midship. Be sure rudder indicator pointer is at zero when back rudder assembly to midship.	
YFB 92-11	**FWD & AFT Propeller Inspection / Removal / Replacement and Installation**	
11.1	**Removal / Inspection**	
11.1.1	Upon satisfactory completion of hull cleaning, make necessary removal of the fwd and aft propellers.	
11.1.2	After removal from the craft clean fwd and aft propeller surfaces, free of all corrosion and any foreign matter.	
11.1.3	Rigging shop personnel will transport propellers to the shop.	
11.2	**Off Island Efforts**	
11.2.1	Upon completion of inspection provide condition report for off island repair prior to ship out.	
11.2.2	Fabricate appropriate design of wooden crate for 2 ea. Propeller.	
11.2.3	Crate and secure on pallet and send propellers off island for repair/recondition.	
11.2.4	Issues which may be found during this phase will be addressed by Contractor Found Report (CFR).	
11.3	**Installation**	
11.3.1	Upon receipt of propellers inspect and conduct penetration test prior to installation.	
11.3.2	Provide rigging and forklift services for installation. Ensure rigging services will be IAW P-307 standard operating procedures.	
11.3.3	Final operational test will be conducted during sea trial.	

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Scope of Work (SOW), For On Island Work Effort		
Number	Description	
YFB 92-12	FWD & AFT Propeller Shaft Assy. Removal, Repairs as required and Re-installation	
12.1	**Removal**	
12.1.1	Provide forklift and rigging services for the removal of Fwd Aft propellers.	
12.1.2	Remove propeller IAW ref c.16 a guide.	
12.1.3	Uncouple main fwd and aft propeller shaft couplings from intermediate shaft couplings and make necessary removals and disconnection of shaft cooling systems and packing gland assemblies.	
12.1.4	Remove/unship the entire fwd and aft propeller shaft assemblies including all associated components, transit to machine shop for inspection of shaft trueness and physical working condition. .	
12.1.5	Uncouple fwd and aft intermediate shafts from main engines, remove and transit to machine shop for inspection of shaft trueness and physical working condition. Un-repairable discrepancies will be addressed by CFR.	
12.1.6	Upon removal of propeller shaft assemblies, remove stern tube cutlass bearings and strut barrel cutlass bearings.	
12.2	**Repairs**	
12.2.1	Swing shaft section between the lathe centers and check for run out and trueness to maximum run out 0.010 inch. True face of coupling by skim cut and recondition threads, keys and keyway. Provide clad welding as required. Provide written report to Senior Maintenance Engineer.	
12.2.2	Provide machining services for incidental repairs of shafts assemblies.	
12.2.3	Provide rigging services until completion of repair.	
12.2.4	Issues not covered which may be found during this phase will be addressed by Condition Found Report (CFR).	
12.2.5	For planning purposes provide clad welding for 70 lineal inches.	
12.3	**Installation**	
12.3.1	Provide forklift and rigging services for installations of Fwd Aft propellers.	
12.3.2	Replace fwd and aft stern tube cutlass bearings and strut barrel cutlass bearings IAW ref c. 17 as a guide. Alignment and fitting of bearing(s) shall be included on this item.	
12.3.3	Re-couple fwd and aft intermediate shafts to main engines. Shims may be required for alignment.	
12.3.4	Re-install/re-couple the fwd and aft main propeller shaft assemblies including all associated components.	
12.3.5	Upon completion of installation of propeller shaft and propeller, confirm all clearances and condition IAW ref. c. 17. Document clearances and condition on QA form to government.	
YFB 92-13	Bottom Hull Inspection and (UT) Ultrasonic Thickness Test for Integrity	
13.1	Hull Plating UT and Inspection	
13.2	Upon completion of HP water blasting, lay-out 24" pattern/guide spots as a mark on the underwater hull surfaces to include the free board (hull area between the designated waterline to the main deck) in preparation for UT inspection.	
13.3	Conduct UT on prepared spots, on the underwater hull surfaces to include the free board (hull area between the designated waterline to the main deck) using a 24" grid system, plot readings. Submit one legible copy in electronic media, of a report listing results of thickness reading to the government representative. List in one column the design thickness of plate inspected. List in another column, next to the design thickness, the actual thickness readings taken. List specific locations with respect to frame, strake, or measurements from suitable reference points. Provide CFR to government representative for all areas less than 50 percent of design thickness and areas of pitting.	
13.4	Perform visual inspection of all machinery foundations, submit report to government on condition. Submit (CFR) on all foundations with discrepancies.	
YFB 92-14	Miscellaneous Bottom Hull Removal/Repairs and Installation	
14.1	**Fwd/Aft Shaft Compartment Hull Repairs**	
14.1.1	**Removal**	
14.1.2	Prior to removal of hull plate, secured strut bearing housing to insure shaft alignment will not be affected during crop out and removal.	
14.1.3	Anticipate crop out approximately 300 sq.ft. of hull plate and 150 L.F. stiffeners and frames.	
14.1.4	Upon completion of removal, all burrs, and sharp edges shall be ground smooth then sanded to remove roughness prior to install new material.	
14.1.5	Provide rigging assist until completion of repair.	
14.1.6	Provide gas free certificate prior to start the work.	
14.1.7	Gas free services will remain active throughout the craft until completion of all efforts requiring gas free services.	
14.2	**Repair and Installation**	
14.2.1	Provide precise templates prior to final cut of the material required for fabrication.	

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Scope of Work (SOW), For On Island Work Effort		
Number	Description	
14.2.2	All new materials will be preserve IAW ref. c.5.	
14.2.3	All welding work shall be IAW ref. c.8.	
14.2.4	Weld in place all new Hull Frame members and Hull Stiffeners.	
14.2.5	All disturbed areas caused by welding and heating shall be clean and preserve IAW ref. c.5.	
14.2.6	Provide rigging assist until completion of repair.	
14.2.7	Repair and paint all new surfaces and surfaces damaged IAW ref. c.5	
YFB 92-15	Fwd/Aft Rudder Compartment Hull Repairs	
15.1	**Removal**	
15.1.1	Prior to removal of hull plate, secured rudder shaft housing to insure shaft alignment will not be affected during	
15.1.2	Anticipate crop out approximately 50 sq.ft. of hull plate and 25 L.F. stiffeners and frames.	
15.1.3	Upon completion of removal, all burrs, and sharp edges shall be ground smooth then sanded to remove roughness prior to install new material.	
15.1.4	Provide rigging assist until completion of repair.	
15.1.5	Provide gas free certificate prior to start the work.	
15.1.6	Gas free services will remain active throughout the craft until completion of all efforts requiring gas free services.	
15.2	**Repair and Installation**	
15.2.1	Provide precise templates prior to final cut of the material required for fabrication.	
15.2.2	Fabrication shall be IAW existing designed characteristics.	
15.2.3	All welding work shall be IAW ref. c.8.	
15.2.4	Weld in place all new Hull Frame members and Hull Stiffeners.	
15.2.5	Repair and paint all new surfaces and surfaces damaged IAW ref. c.5.	
15.2.6	Provide rigging assist until completion of repair.	
YFB 92-16	Replace P/S Hull Pipe Fenders	
16.1	**Removal**	
16.1.1	Crop out dented/deteriorated fenders penetrating main deck and hull plate approximately 100 L.F.	
16.1.2	Upon completion of removal all burrs, and sharp edges shall be ground smooth then sanded to remove roughness prior to install new material.	
16.1.3	Prior to removal insure all equipment affected will be remove in place prior to start the work.	
16.1.4	Provide fire watch services until completion of repair.	
16.1.5	Provide rigging services for removal and reinstallations.	
16.1.6	Purchase 4" diameter black pipe , schedule 80 IAW blue print reference drawing.	
16.1.7	Upon receipt of the pipe layout and cut/split into two pieces equally. Ensure interior surfaces of the pipe will be preserve prior to installations.	
16.2	**Fabrication/Installation**	
16.2.1	Prior to installations of new pipe fender insure all vacated areas shall be preserve IAW ref. c.5.	
16.2.2	Install new pipe fender in accordance with blue print drawing design characteristics.	
16.2.3	Provide precise templates prior to final cut of the material required for fabrication.	
16.2.4	All burrs and sharp edges shall be removed to prevent damage to equipment or personnel injury.	
16.2.5	Repair and paint all new surfaces and surfaces damaged IAW ref. c.5.	
16.2.6	All welding efforts shall be IAW NSTM Chapter 074-Volume 1 Welding and Allied Processes.	
YFB 92-17	Main Deck Misc. Structural Removal/Repairs/Fabrication and Installation	
17.1	**Fwd and Aft Ramp Removal and Re-installation**	
17.1.1	**Removal**	
17.1.1.1	Disconnect/secure mechanical system accessories of fwd and aft ramp prior to removal of ramp.	
17.1.1.2	Remove and replace existing wire rope of fwd & aft bow ramp hoisting system approx. 140-lf x 3/4" OD.	
17.1.1.3	Remove/rig-out fwd and aft ramp from the craft and move to an area for blasting to near white metal and preservation. (To include installation of lifting pad eyes and crane services).	
17.1.1.4	Provide government crane services for the removal and reinstallation of bow ramps.	
17.1.1.5	Remove existing fwd and aft gasket	
17.1.2	**Bow Ramp Surfaces Preparation, Repair as Required (Fwd. & Aft.)**	
17.1.2.1	Remove/chip out non-skid of fwd/aft bow ramp and replace, IAW ref. c.5.	
17.1.2.2	Provide/cut access openings on fwd and aft ramp to facilitate inspection. Discrepancies will be addressed by CFR.	
17.1.2.3	Provide machining services manufacture new Bow Ramp retaining pins, (Tapered end)	
17.1.3	**Re-installation (Perform this task after preservation effort)**	
17.1.3.1	Rig, re-install/realign fwd and aft ramp to its original configuration to the craft.	

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17.1.3.2	Repair/recondition fwd and aft ramp mechanical hoisting system including all associated accessories, replace all hoisting system sheaves.	
17.1.3.3	Install new fwd and aft gaskets with appropriate securing fasteners.	
17.2	**Bulwarks Inspection, Removal/Repair and Reinstallation**	
17.2.1	**Removal**	
17.2.1.1	Remove counter balance weights from deck of the craft. Move to an area for blasting to near white metal, prime, and paint IAW ref. c.5..	
17.2.1.2	Inspect18-ea 4" x 2" x 8" brackets for counter balance weights and list discrepancies on CFR.	
17.2.1.3	Check fwd/aft bow ramp hinges for cracks, list discrepancies on CFR.	
17.2.1.4	Inspect bulwark structures around the craft and list discrepancies on CFR.	
17.2.1.5	Inspect all hatches and list discrepancies on CFR.	
17.2.1.6	Remove/Replace 8-ea 4" x 7" deteriorated mounting plate/brackets electrical outlet located all around passenger area.	
17.2.1.7	All welding efforts shall be IAW NSTM Chapter 074-Volume 1 Welding and Allied Processes.	
17.2.1.8	Inspect all mooring chocks and cleats, list discrepancies on CFR.	
17.3	**Emergency Generator Room Inspection**	
17.3.1	Inspect emergency generator room louvers for deterioration and list discrepancies on CFR.	
17.4	**CO2 Locker Misc. Repairs**	
17.4.1	Inspect CO2 locker bulkheads, decks, louvers. Provide list of discrepancies on CFR.	
17.5	**01 Level Paint Locker/01 Level Storage Room Preservation**	
17.5.1	Clean deck plate to bare metal including door frame prior to preservation. Ensure preservation shall IAW ref.	
17.5.2	Detach/Remove air tight door to facilitate blasting and preservation.	
17.5.3	Sand paper clean bulkhead prior to prime coat and final coat. Preserve IAW c.5.	
YFB 92-18	**Engine Room Misc. Repair**	
18.1	**Deck plates and Bilge Inspection/Preservation**	
18.1.1	**Removal**	
18.1.1.1	Mark all deck plates and map locations.	
18.1.1.2	Remove and clean all deck plates.	
18.1.1.3	Degrease and clean bilges, dry out.	
18.1.1.4	Inspect bilges, angle irons for deterioration and areas of paint failure. List discrepancies on CFR.	
18.1.1..5	Preserve and paint bilges IAW ref. c.5.	
18.1.2	**Installation**	
18.1.2.1	Reinstall deck plates with new fasteners.	
YFB 92-19	**Fwd/Aft Bow Ramp Hydraulic Ram/Hoisting Mechanism Rebuild / Replace**	
19.1	**Removal Overhaul/Replace Hydraulic Ram Cylinder**	
19.1.1	Remove Hydraulic rams from the FWD & AFT bow ramp equipment compartment, two rams from each compartment, four (4) rams total.	
19.1.2	Provide Hull Tech assist for the removal of 8 ea. sheave assembly.	
19.1.3	Remove entire hoisting mechanism and transport from boat to engine shop for inspections.	
19.1.4	Provide forklift and rigging assist until completion of repairs.	
19.1.5	Dismantle completely hydraulic cylinder, conduct inspection of internal sections of hydraulic ram. Replace defective parts as required.	
19.1.6	Purchase/Replace all seals of hydraulic ram completely prior to assemble and bench test. Ensure each cylinder are leaks free to hold working pressure.	
19.1.7	Inspect sheave assemblies and submit discrepancies on CFR; Plan on replacing a total of 8 ea. sheave assemblies.	
19.1.8	Purchase/Replace hoisting cable IAW blue print drawing specifications.	
19.2	**Reinstallation of Hydraulic Ram Cylinder and Hoisting Mechanism**	
19.2.1	Upon completion of ramps and hoisting mechanism repairs, transport all parts from engine shop to the job site.	
19.2.2	Install align hydraulic ram assemblies to each respective sheaves of hoisting mechanism in (fwd /aft) bow compartment .	
19.2.3	Operational test of hoisting mechanism upon undocking of the boat.	
19.2.4	Provide government crane services during operational test. The crane will hold the bow ramp assembly during the process of up and down testing and until the hoisting mechanism are properly adjusted and hydraulic ramps are leak free.	
19.2.5	Provide incidental machining as required.	
19.2.6	Provide Hull Tech assist for installations of sheave assemblies.	

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Scope of Work (SOW), For On Island Work Effort		
Number	Description	
19.2.7	Note: All crane services will be provided by the Government.	
YFB 92-20	Misc. Gauges/Meter Removal, Calibration and Reinstallation	
20.1	**Removal**	
20.1.1	Disconnect and remove in service all electrical and mechanical gauges/METERS for recalibration.	
20.1.2	Provide marker for electrical meters wiring connections prior to remove in service for recalibration.	
20.1.3	Provide bench mark for mechanical gauges fittings and fasteners prior to remove in service for recalibration;	
20.1.4	Fwd/Aft MPDE (Main Propulsion Diesel Engine) - 16 ea. gauge, mechanical	
20.1.5	Fwd/Aft SSDG - 8 ea. gauge, mechanical	
20.1.6	EG (Emergency Generator) D.E. - 3 ea. gauge, mechanical	
20.1.7	EG (Emergency Generator) switch board - 4 ea. meter meter, electrical	
20.1.8	SSDG's Main Switch Board - 8 ea. gauge, mechanical	
20.1.9	Battery Charger - 6 ea. meter, electrical	
20.1.10	Search Light - 2 ea. meter, electrical	
20.1.11	Compressor - 2 ea. gauge, mechanical	
20.1.12	Potable Water Pump - 2 ea. gauge, mechanical	
20.1.13	Pilot House - 12 ea. gauge, electrical	
20.1.14	Engine Room EOSS - 17 ea. gauge electrical	
20.2	**Reinstallation**	
20.2.1	Upon completion of recalibration reinstall all gauges/meters to respective equipment designations.	
20.2.2	Installations of gauges will be IAW original configurations designed.	
20.2.3	Ensure all mechanical/electrical gauges and electrical meter holders, brackets and screws are properly installed/secured prior to place back in service.	
20.2.4	Double check electrical wiring connections of main switch board meters prior to shift power place back in service.	
20.2.5	Check all mechanical gauges during dock trial for possible leaks prior to sea trial.	
YFB 92-21	Gas Freeing Task Requirement	
21.1	Gas free tanks for entry and cleaning to include all engine room, shaft compartment, rudder compartment, bow ramp compartment, fuel tanks and potable water tank, certify to be safe for entry / safe for hot work. Where hot work is to be accomplished, Gas free those areas and any adjoin area(s) to a gas free level which will safely allow/permit hot work.	
21.2	Entry by any person or persons into confined spaces is prohibited until such spaces have been inspected, tested, and certified safe for entry and or work.	
21.3	Upon completion of testing, a gas free certificate and test log shall be issued which indicates the conditions required for entry and/or work existing at the time of the certificate was issued.	
21.4	Test results shall be satisfactory before a certificate for entry or work is issued. Approved Gas Free Certificate shall be posted prior to personnel entry or commencement of any work.	
21.5	When testing indicates a hazardous condition exists, stop all work and remove personnel from the space.	
21.6	Stop entry and work until all unsafe conditions have been corrected or controlled and the space has been retested and recertified.	
21.7	The certificate duration shall not exceed a maximum period of eight hours.	
21.8	Should the space be left unmanned and unsupervised (such as breaks, lunch period, or shift change) the space shall be retested and recertified before entry into or work on the space.	
21.9	Use only approved, safe, spark-proof or explosive proof equipment when oxygen-enriched atmospheres or flammable or explosive vapors, gases or materials may be present.	
21.10	When materials and conditions within the space introduce flammable, toxicants or unsafe oxygen levels, identify and remove the cause or source of the contamination by cleaning, flushing and draining, tagging out, isolating or plugging and ventilating before entry of work. Space must be recertified gas free and safe for anticipated work.	
21.11	Adequate ventilation shall be maintained for the duration of the work.	
21.12	Entry shall not authorize into spaces that contain flammable, toxic, oxygen-deficient of oxygen-enriched atmosphere with out proper PPE.	
21.13	Safety Department shall specify the PPE's and emergency rescue provisions necessary for safe entry and work.	
21.14	The atmosphere shall be periodically or continuously tested and maintain safe condition as directed by the Safety Department during hot work and cleaning operations such as sludge removal that has the potential for generating toxic fumes.	
21.15	Gas free services will remain active throughout the craft until completion of all efforts requiring gas free services.	

Scope of Work (SOW), For On Island Work Effort		
Number	Description	
21.16	Adequate ventilation shall be maintained for the duration of the work.	
21.17	Provide temporary lighting and ventilation into all tanks as required. Ensure all lighting/ventilation is explosive proof.	
YFB 92-22	Tank Cleaning, Inspection and Preservation	
22.1	**Main Fuel Tank Cleaning**	
22.1.1	Remove bolted access manhole opening of the tank to facilitate inspection, repair and preservation.	
22.1.2	Hold tanks open for inspection and approval from Safety department rep.	
22.1.3	Provide temporary lighting and ventilation into all tanks prior to start the task. Ensure all lighting/ventilation is explosive proof.	
22.1.4	Clean entire interior metal surfaces approximately 447 sq.ft.	
22.1.5	Pressure wash to bare metal interior plate surfaces including all vertical, horizontal surfaces, framing and piping. Ensure cleaning agent is safety approved and environmental friendly.	
22.1.6	Upon completion of pressure wash, request government vacuum truck services for the removal of oily water, debris, and sludge's from the tank. Ensure tank is completely dry prior to install manhole cover and to place back in service.	
22.1.7	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.2	**Inspection and Preservation**	
22.2.1	Visually inspect all vertical and horizontal, interior/exterior surfaces of all tanks. Accomplish this effort immediately after successful gas freeing phase of tanks and craft for safe entry and hot work.	
22.2.2	All replacement materials shall be blasted to white metal and appropriate pretreatment/preservation applied prior to installation to the tanks.	
22.2.3	Replacement of plates, all welded joints and disturbed areas will be preserved IAW Manufacturer procedures and specifications and IAW ref. c.5.	
22.2.4	Any additional repairs beyond this quantity will be addressed by DFR.	
22.2.5	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.2.6	Preserve interior and exterior tank surfaces IAW ref. c.5.	
22.2.7	Upon completion of cleaning and preservation closeout tanks with government representative.	
22.3	**Port/Stbd. Day Tank Cleaning**	
22.3.1	Remove bolted access manhole opening of the tank to facilitate inspection, repair and preservation.	
22.3.2	Hold tanks open for inspection and approval from Safety department rep.	
22.3.3	Provide temporary lighting and ventilation into all tanks prior to start the task. Ensure all lighting/ventilation is explosive proof.	
22.3.4	Clean entire interior metal surfaces approximately 582 sq.ft.	
22.3.5	Pressure wash to bare metal interior plate surfaces including all vertical, horizontal surfaces, framing and piping. Ensure cleaning agent is safety approved and environmental friendly.	
22.3.6	Upon completion of pressure wash, request government vacuum truck services for the removal of oily water, debris, and sludge's from the tank. Ensure tank is completely dry prior to install manhole cover and to place back in service.	
22.3.7	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.4	**Inspection and Preservation**	
22.4.1	Visually inspect all vertical and horizontal, interior/exterior surfaces of all tanks. Accomplish this effort immediately after successful gas freeing phase of tanks and craft for safe entry and hot work. Provide report to government representative.	
22.4.2	All replacement materials shall be blasted to near white metal and appropriate pretreatment/preservation applied prior to installation to the tanks.	
22.4.3	Replacement of plates, all welded joints and disturbed areas will be preserved IAW Manufacturer procedures and specifications and ref. c.5.	
22.4.4	Any additional repairs beyond this quantity will be addressed as CFR.	
22.4.5	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.4.6	Preserve interior and exterior tank surfaces IAW ref. c.5.	
22.4.7	Upon completion of cleaning and preservation closeout tanks with government representative.	
22.5	**Emergency Gen. Day Tank Cleaning**	
22.5.1	Remove bolted access manhole opening of the tank to facilitate inspection, repair and preservation.	
22.5.2	Hold tanks open for inspection and approval from Safety department rep.	
22.5.3	Provide temporary lighting and ventilation into all tanks prior to start the task. Ensure all lighting/ventilation is explosive proof.	
22.5.4	Clean entire interior metal surfaces approximately 212 sq.ft.	
22.5.5	Pressure wash to bare metal interior plate surfaces including all vertical, horizontal surfaces, framing and piping. Ensure cleaning agent is safety approved and environmental friendly.	

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Scope of Work (SOW), For On Island Work Effort		
Number	Description	
22.5.6	Upon completion of pressure wash, request government vacuum truck services for the removal of oily water, debris, and sludge's from the tank.	
22.6	**Inspection and Preservation**	
22.6.1	Visually inspect all vertical and horizontal, interior/exterior surfaces of all tanks. Accomplish this effort immediately after successful gas freeing phase of tanks and craft for safe entry and hot work.	
22.6.2	All replacement materials shall be blasted to white metal and appropriate pretreatment/preservation applied prior to installation to the tanks.	
22.6.3	Replacement of plates, all welded joints and disturbed areas will be preserved IAW Manufacturer procedures and specifications and ref. c.5.	
22.6.4	Any additional repairs beyond this quantity will be addressed on CFR.	
22.6.5	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.6.6	Preserve interior and exterior tank surfaces IAW ref. c.5.	
22.6.7	Upon completion of cleaning and preservation closeout tanks with government representative, existing tank access covers with new gasket.	
22.7	**Potable Water Tank Cleaning**	
22.7.1	Remove bolted access manhole opening of the tank to facilitate inspection, repair and preservation.	
22.7.2	Hold tanks open for inspection and approval from Safety department rep.	
22.7.3	Provide temporary lighting and ventilation into all tanks prior to start the task. Ensure all lighting/ventilation is explosive proof.	
22.7.4	Clean entire interior metal surfaces approximately 420 sq.ft.	
22.7.5	Pressure wash to bare metal interior plate surfaces including all vertical, horizontal surfaces, framing and piping. Ensure cleaning agent is safety approved and environmental friendly.	
22.7.6	Upon completion of pressure wash, request government vacuum truck services for the removal of oily water, debris, and sludge's from the tank. Ensure tank is completely dry prior to install manhole cover and to place back in service.	
22.7.8	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.8	**Inspection and Preservation**	
22.8.1	Visually inspect all vertical and horizontal, interior/exterior surfaces of all tanks. Accomplish this effort immediately after successful gas freeing phase of tanks and craft for safe entry and hot work.	
22.8.2	All replacement materials shall be blasted to white metal and appropriate pretreatment/preservation applied prior to installation to the tanks.	
22.8.3	Replacement of plates, all welded joints and disturbed areas will be preserved IAW Manufacturer procedures and specifications and ref. c.5.	
22.8.4	Any additional repairs beyond this quantity will be addressed on CFR.	
22.8.5	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.8.6	Preserve interior and exterior tank surfaces IAW ref. c.5.	
22.8.7	Upon completion of cleaning and preservation closeout tanks with government representative, existing tank access covers with new gasket. Replace threaded fasteners as required.	
22.9	**Fwd/Aft Rudder Hydraulic System Tank Cleaning**	
22.9.1	Remove bolted access manhole opening of the tank to facilitate inspection, repair and preservation.	
22.9.2	Hold tanks open for inspection and approval from Safety department rep.	
22.9.3	Provide temporary lighting and ventilation into all tanks prior to start the task. Ensure all lighting/ventilation is explosive proof.	
22.9.4	Clean entire interior metal surfaces approximately 246 sq.ft.	
22.9.5	Pressure wash to bare metal interior plate surfaces including all vertical, horizontal surfaces, framing and piping. Ensure cleaning agent is safety approved and environmental friendly.	
22.9.6	Upon completion of pressure wash, request government vacuum truck services for the removal of oily water, debris, and sludge's from the tank. Ensure tank is completely dry prior to install manhole cover and to place back in service.	
22.9.7	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.9.8	Upon satisfactory cleaning and drying of the tank, change hydraulic oil up full level mark of sight glass. Replace oil filters.	
22.9.9	Prior to operational test check physical working of steering pump coupling.	
22.10	**Inspection and Preservation**	
22.10.1	Visually inspect all vertical and horizontal, interior/exterior surfaces of all tanks. Accomplish this effort immediately after successful gas freeing phase of tanks and craft for safe entry and hot work.	
22.10.2	All replacement materials shall be blasted to white metal and appropriate pretreatment/preservation applied prior to installation to the tanks.	

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Scope of Work (SOW), For On Island Work Effort		
Number	Description	
22.10.3	Replacement of plates, all welded joints and disturbed areas will be preserved IAW Manufacturer procedures and specifications and ref. c.5.	
22.10.4	Any additional repairs beyond this quantity will be addressed on CFR.	
22.10.5	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.10.6	Preserve interior and exterior tank surfaces IAW ref. c.5.	
22.10.7	Upon completion of cleaning and preservation closeout with government representative with existing tank access covers with new gasket. Replace threaded fasteners as required.	
22.11	**Fwd/Aft Bow Hydraulic Ramp Tank Cleaning**	
22.11.1	Remove bolted access manhole opening of the tank to facilitate inspection, repair and preservation.	
22.11.2	Hold tanks open for inspection and approval from Safety department rep.	
22.11.3	Provide temporary lighting and ventilation into all tanks prior to start the task. Ensure all lighting/ventilation is explosive proof.	
22.11.4	Clean entire interior metal surfaces approximately 154 sq.ft.	
22.11.5	Pressure wash to bare metal interior plate surfaces including all vertical, horizontal surfaces, framing and piping. Ensure cleaning agent is safety approved and environmental friendly.	
22.11.6	Upon completion of pressure wash, request government vacuum truck services for the removal of oily water, debris, and sludge's from the tank. Ensure tank is completely dry prior to install manhole cover and to place back in service.	
22.11.7	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.11.8	Upon satisfactory cleaning and drying of the tank, Fill with hydraulic oil up full level mark of deep stick. Replace oil filters.	
22.12	**Inspection and Preservation**	
22.12.1	Visually inspect all vertical and horizontal, interior/exterior surfaces of all tanks. Accomplish this effort immediately after successful gas freeing phase of tanks and craft for safe entry and hot work.	
22.12.2	All replacement materials shall be blasted to white metal and appropriate pretreatment/preservation applied prior to installation to the tanks.	
22.12.3	Replacement of plates, all welded joints and disturbed areas will be preserved IAW Manufacturer procedures and specifications and ref. c.5.	
22.12.4	Any additional repairs beyond this quantity will be addressed on CFR.	
22.12.5	Perform these tasks in coordination/succession with the gas freeing efforts.	
22.12.6	Preserve interior and exterior tank surfaces IAW ref. c.5.	
22.12.7	Closeout tanks with government representative, with existing tank access covers with new gasket. Replace threaded fasteners as required.	
22.12.8	Upon satisfactory cleaning and drying of the tank, change hydraulic oil up full level mark of deep stick. Replace oil filters as required.	
22.12.9	Conduct operational test, observe ramp for possible leaks. Repair as required.	
YFB 92-23	**Painting and Preservation Efforts**	
23.1	**Blasting Preparation / Removal of Interferences as required**	
23.1.1	Plug and block all openings throughout the craft where blast media could be introduced into the interior of the craft. Cover all windows from the outside with plywood.	
23.1.2	Rig and mobilize blasting equipment near YFB 92.	
23.1.3	Remove eight Lifting pad eyes store in gear box until after HP water blasting and painting is complete.	
23.2	**Hull Surfaces Preparation / Blasting / Painting and Preservation**	
23.2.1	Prepare/blast to near white metal the entire horizontal and vertical exterior hull surfaces from the keel up to gunnel approx. 6,500-SF total. To include the free board (hull area between the designated waterline to the main	
23.3	**Underwater Hull, (Keel to Top of Boot top)**	
23.3.1	Primer: One anti corrosion coat MIL-PRF-24647, Type II, Red and One coat MIL-PRF-24647, Type II, Gray, 5-7 MILS/Coat.	
23.3.2	Top Coat from keel to bottom of boot top: One anti-fouling coat MIL-PRF-24647, Type II, Red and One anti-fouling coat MIL-PRF-24647, Type II, Black. 5-7 MILS/Coat. Top coat for boot top will be same anti-fouling except two coats of black.	
23.3.3	**Exterior Surfaces (Above Boot top with Exception of Areas Receiving Nonskid)**	
23.3.4	Primer: One coat MIL-PRF-23236, Type V or VI, Class 5 or 7. 4-8 MILS.	
23.3.5	One stripe coat and One full coat MIL-PRF-23236, Type V or VI, Class 5 or 7. 4-8 MILS/Coat	
23.3.6	Top Coat horizontal surfaces, decks: One coat deck gray no. 26008 (FED STD 595), MIL-PRF-24635 Type III, Grade B,. 2-3 MILS.	
23.3.7	Top Coat vertical surfaces: One coat haze gray no. 26270 (FED STD 595), MIL-PRF-24635, Type III, Grade B. 2-3 MILS. Or MIL-PRF-24763, Type II or III, class 2, Grade B. 2-4 MILS.	

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Scope of Work (SOW), For On Island Work Effort		
Number	Description	
23.4	**Non-skid Areas of Deck**	
23.4.1	Primer: One coat proprietary non-skid primer listed on the qualified products list (QPL) for MIL-PRF-24667 of type to match non-skid that will be applied.	
23.4.2	One stripe coat of proprietary non-skid primer listed on the QPL for MIL-PRF-24667	
23.4.3	Non-Skid: One coat of dark gray, MIL-PRF-24667, Type I, V, VI or VIII, Comp G or One coat dark gray, MIL-PRF-24667, Type II, III, IV, Comp G.	
23.5	**Main Deck Above up to Pilot House Top Surfaces preparation/Blasting/Painting and Preservation**	
23.5.1	Prepare/blast to near white metal the entire horizontal and vertical exterior hull surfaces from the main deck to the top of the pilot house, approx. 5,612-SF total.	
23.5.2	Primer: One coat MIL-PRF-23236, Type V or VI, Class 5 or 7. 4-8 MILS.	
23.5.3	One stripe coat and One full coat MIL-PRF-23236, Type V or VI, Class 5 or 7. 4-8 MILS/Coat	
23.5.4	Top Coat horizontal surfaces, decks: One coat deck gray no. 26008 (FED STD 595), MIL-PRF-24635 Type III, Grade B,. 2-3 MILS.	
23.5.5	Top Coat vertical surfaces: One coat haze gray no. 26270 (FED STD 595), MIL-PRF-24635, Type III, Grade B. 2-3 MILS. Or MIL-PRF-24763, Type II or III, class 2, Grade B. 2-4 MILS.	
23.5.6	Top Coat horizontal surfaces on top of pilot house: One coat enamel white.	
23.6	**Engine room Surfaces Preparation/Painting and Preservation**	
23.6.1	Clean bilges areas in each space rinse, with fresh water, pump down, and dispose of oily liquids and debris to attain a clean, dry condition of the individual bilges. Dispose of oily liquids and debris IAW local regulations.	
23.6.2	Remove deck plates in a way of painting and preservation of bilges/engine room.	
23.6.3	Prepare, scrape, and re-paint interior surfaces of engine room bulkheads, overheads, & bilges Approx. 8,000-SF.	
23.6.4	Scrape, clean, prepare, prime, and paint interior surfaces of aft and fwd bow ramp hoisting mechanism compartment, Approx. 1,984-SF total. Prime and paint IAW ref. c.5.	
23.6.5	Ensure all PPE's are in good working condition.	
23.6.6	Gas free all confine space to gain entry. Gas free certificate shall be displayed at all times on the job site.	
23.6.7	Maintain appropriate ventilation on all confine space until completion of repair.	
23.7	**Shaft Compartment (fwd./aft) Surfaces Preparation/Painting and Preservation**	
23.7.1	Clean bilges areas in each space, rinse with fresh water, pump down, and dispose of oily liquids and debris to attain a clean, dry condition of the individual bilges. Dispose of oily liquids and debris IAW local regulations.	
23.7.2	Remove deck plates and interference in a way of painting an preservation of interior hull structures.	
23.7.3	Prepare, scrape, and re-paint interior surfaces of engine room bulkheads, overheads, & bilges Approx. 8,000-SF, IAW ref. c.5.	
23.7.4	Scrape, clean, prepare, prime, and paint interior surfaces of aft and fwd bow ramp hoisting mechanism compartment, Approx. 1,812-SF total.	
23.7.5	Ensure all corners, coaming must be stripe coat painted manually for proper preservation.	
23.7.6	Ensure all PPE's are in good working condition.	
23.7.7	Gas free all confine space to gain entry. Gas free certificate shall be displayed at all times on the job site.	
23.7.8	Maintain appropriate ventilation on all confine space until completion of repair.	
23.8	**Rudder Compartment (fwd./aft) Surfaces Preparation/Painting and Preservation**	
23.8.1	Clean bilges areas in each space, rinse with fresh water, pump down, and dispose of oily liquids and debris to attain a clean, dry condition of the individual bilges. Dispose of oily liquids and debris IAW local regulations.	
23.8.2	Remove deck plates and interference in a way of painting an preservation of interior hull structures.	
23.8.3	Prepare, scrape, and re-paint interior surfaces of engine room bulkheads, overheads, & bilges Approx. 8,000-SF, IAW ref. c.5.	
23.8.4	Scrape, clean, prepare, prime, and paint interior surfaces of aft and fwd bow ramp hoisting mechanism compartment, Approx. 1,984-SF total, IAW ref. c.5.	
23.8.5	Ensure all corners, coaming must be stripe coat painted manually for proper preservation.	
23.8.6	Ensure all PPE's are in good working condition.	
23.8.7	Gas free all confine space to gain entry. Gas free certificate shall be displayed at all times on the job site.	
23.8.8	Maintain appropriate ventilation on all confine space until completion of repair.	
23.9	**Bow Ramp Compartment (fwd./aft) Surfaces Preparation/Painting and Preservation**	

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Scope of Work (SOW), For On Island Work Effort		
Number	Description	
23.9.1	Clean bilges areas in each space, rinse with fresh water, pump down, and dispose of oily liquids and debris to attain a clean, dry condition of the individual bilges. Dispose of oily liquids and debris IAW local regulations.	
23.9.2	Remove deck plates and interference in a way of painting an preservation of interior hull structures.	
23.9.3	Prepare, scrape, and re-paint interior surfaces of engine room bulkheads, overheads, & bilges Approx. 8,000-SF, IAW ref. c.5.	
23.9.4	Scrape, clean, prepare, prime, and paint interior surfaces of aft and fwd bow ramp hoisting mechanism compartment, Approx. 950-SF total, IAW ref. c.5.	
23.9.5	Ensure all corners, coaming must be stripe coat painted manually for proper preservation.	
23.9.6	Ensure all PPE's are in good working condition.	
23.9.7	Gas free all confine space to gain entry. Gas free certificate shall be displayed at all times on the job site.	
23.9.8	Maintain appropriate ventilation on all confine space until completion of repair.	
23.10	**Removal Protective Covering for Preservation efforts.**	
23.10.1	Remove protective plugs and blocks which were previously installed throughout the craft.	
23.10.2	Remove plywood covering/protection to all windows.	
23.10.4	Remove all protection at topside lighting fixtures, outlets and electrical cable.	
YFB 92-24	**Operational Test (Dock Trial and Sea Trial)**	
24.1	**Dock Trial Requirements**	
24.1.1	Provide/install oil boom services around the periphery of the craft prior to transfer of fuel to the craft.	
24.1.2	When so authorized by On-Site Representative, return fuel/oil to vessel tanks (approximately 4,000-gls of Fuel).	
24.1.3	Replenish Lube Oil from 55 gallon drum(s) (GFE Lube Oil)	
24.1.4	Remove/secure oil boom from around the periphery of the craft after completion of fuel transfer.	
24.1.5	Conduct dock side tests of all system alignments and safety devices/alarms/communication systems	
24.1.6	Light Off/warm-up and conduct dockside test on MPDE to verify proper operating condition. Note down	
24.1.7	Test the emergency shutdown device of engine.	
24.2	**Engine Break In/Sea Trial Requirements**	
24.2.1	Conduct sea trial with qualified Government representative onboard to confirm sea worthiness of the Craft, and	
24.2.2	Check and adjust stuffing box gland of rudder posts and propeller shaft to eliminate any excessive leaks.	
24.2.3	Cycle rudders from hard-right to hard-left and check rudder movement, adjust as required.	
24.2.4	Test the electrical/electronics equipment during sea trial of craft, to verify satisfactory condition.	
24.2.5	Test run the engines 50 RPM increments every 15 minutes up to maximum RPM.	